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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/049,903	02/20/2002	Takahide Itoh	219918US3PCT	2367	
	7590 08/23/200 AK, MCCLELLAND,	EXAMINER			
1940 DUKE STREET ALEXANDRIA, VA 22314			TRIEU, THERESA		
ALEXANDRIA, VA 22314			ART UNIT .	PAPER NUMBER	
			3748		
			NOTIFICATION DATE	DELIVERY MODE	
			08/23/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

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		Application No.	Applicant(s)			
Office Action Summary		10/049,903	ITOH ET AL.			
		Examiner	Art Unit	•		
		Theresa Trieu	. 3748			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet w	ith the correspondence address -	•		
WHI(- Exte after - If NO - Failu Any	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE INSIDE THE MAILING DATE IN THE MAILING THE	ATE OF THIS COMMUNI 36(a). In no event, however, may a vill apply and will expire SIX (6) MOI, , cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	·		
Status						
1)⊠	Responsive to communication(s) filed on <u>08 Ju</u>	<u>ıne 2007</u> .				
2a)⊠	This action is FINAL. 2b) This action is non-final.					
3)	Since this application is in condition for allowar	nce except for formal mat	ters, prosecution as to the merits	s is		
	closed in accordance with the practice under E	x parte Quayle, 1935 C.[D. 11, 453 O.G. 213.			
Disposit	ion of Claims					
4)⊠	Claim(s) 1-5 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw	wn from consideration.				
5)	Claim(s) is/are allowed.		•			
•	Claim(s) <u>1-5</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers					
9)⊠	The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acce	epted or b)□ objected to	by the Examiner.			
	Applicant may not request that any objection to the	- · ·	• •			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex					
Priority (under 35 U.S.C. § 119					
-	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:		§ 119(a)-(d) or (f).			
	1. Certified copies of the priority documents		North Alexander			
	2. Certified copies of the priority documents3. Copies of the certified copies of the prior		· · · — —			
	application from the International Bureau	·	received in this National Stage			
* 5	See the attached detailed Office action for a list	, , , ,	received.			
Attachmen	t(s)	•				
	ce of References Cited (PTO-892)		Summary (PTO-413)			
3) 🔀 Infor	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 11/18/03 & 7/17/03.		s)/Mail Date Informal Patent Application	•		

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DETAILED ACTION

This Office Action is responsive to the applicants' amendment filed on June 8, 2007.

Claims 1 and 2 have been amended. Accordingly, claims 1-5 are pending in this application.

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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2. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terauchi (Patent Number 4,477,238) in view of Nieter et al. (Nieter) (Patent Number 5,256,044).

Regarding claims 1-3, as shown in Fig. 3, 4a, 4b, 5a and 5b, Terauchi discloses a scroll compressor comprising:

a fixed scroll (21) having a spiral wall standing on one side face of an end plate, and secured in place; and an orbiting scroll (22) having a spiral wall standing on one side face of an end plate, and supported so as to be orbitally movable while being prevented from rotating, with the two walls engaged with each other,

wherein a back pressure chamber (28) is provided on the other side face of the end plate of at least one of the fixed scroll (21), and the one scroll is pressed against the other scroll by introducing fluid which is compressed by the fixed scroll and the orbiting scroll into the back pressure chamber;

a stepped portion provided on the one side face of the end plate of at least one of the fixed scroll (21) and the orbiting scroll (22), which has a high part with a height thereof which is high on a central side in a spiral direction, and a low part with a height thereof which is low at an outer peripheral end side; and an upper rim of the wall of the other of the fixed scroll and the orbiting scroll is divided into a plurality of parts to form a stepped shape having, corresponding to the parts, a low upper rim where the height of the part is low at a central side in the spiral direction, and a high upper rim where the height of the part is high at an outer peripheral end side; an elastic body (27) for pressing at least one the fixed scroll and the orbiting scroll against the other scroll. However, Terauchi fails to disclose a back pressure chamber being provided on the side face of the end plate of the orbiting scroll.

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Regarding claims 1, 4 and 5, as shown in Fig. 3, Nieter teaches that it is conventional in the compressor art to utilize the back pressure chamber (25, 27) is provided on the side face of the end plate of the orbiting scroll (13); a bearing member (not numbered; however, clearly seen in Fig. 3) which performs orbit movement while engaging the other side face of the end plate of the orbiting scroll (21), the back pressure chamber is provided between the orbiting scroll and the bearing member. It would have been obvious to one having ordinary skill in the art at the time the invention was made, to have utilized the back pressure being provided on the end plate of the orbiting scroll, as taught by Nieter in the Terauchi apparatus, since the use thereof would have reduced the friction between the orbiting and fixed scrolls and improved the axial compliance in a scroll compressor.

Prior Art

3. The IDS (PTO-1449) filed on Nov. 18, 2003 and July 17, 2003 has been considered. An initialized copy is attached hereto.

Response to Arguments

4. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on July 17, 2003 and Nov. 18, 2003 prompted the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE**FINAL. See MPEP § 609.04(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Theresa Trieu whose telephone number is 571-272-4868. The examiner can normally be reached on Monday-Friday 8:30am- 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TT August 15, 2007 Theresa Trieu
Primary Examiner
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